

Koby Picker

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Education

Case Western Reserve University
B.S. Computer Science, 3.768

Cleveland
2013–2017

Experience

Research Experience.....

CWRU Department of Electrical Engineering and Computer Science

Graph Theory - Strategic Network Formation, Under Professor H. Connamacher 2014–Present
Analysis of variations on M. O. Jackson's Connections Model of social and economic networks

Work Experience.....

ANSYS, Inc.

Software Development Co-op

Pittsburgh

May–August 2014

Gained experience learning functional and procedural languages on the fly, and improving large code-bases. Learned to program for multiple operating systems. Learned to manage full-time work.

JFSA Know Abuse

Co-director of Theater

Beachwood, OH

2013–Present

Mitchell's Ice Cream

Service Provider

Solon, OH

2011–2013

Relevant Coursework and Personal Projects.....

- Learned x86 assembly, took advantage of theoretical CS concepts to construct a Compiler
- Created a simple implementation of the traceroute network tool
- Implemented tree algorithms and applied knowledge of data structures, developing an implementation of the Huffman Encoder data compression algorithm
- Self-taught the basics of SDL and C implementing Conway's Game of Life
- Contributor to open-source Rails application, The Jolly Advisor

Languages

Java and C#: Extensive use in academic and professional settings

Python: Used to implement recursive descent parser

Also used to solve 13 ProjectEuler problems

F#: Used to implement a concurrent automated-testing and stat-tracking tool

Mandarin Chinese: Fair-but-improving grasp of the language through several years of study

Technical Skills

Linux: Experience with several distributions, comfortable with Bash

Networks: Understanding of the network layers and protocols, including TCP/IP, and ICMP

Version Control: Experience with Git and SVN in small and large collaborative projects